

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

ETA-16/0810  
of 10 March 2021

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Interdens Heatseal

Product family  
to which the construction product belongs

Intumescent products for fire sealing and fire stopping  
purposes

Manufacturer

Wolman Wood and Fire Protection GmbH  
Dr.-Wolmann-Straße 31-33  
76547 Sinzheim  
DEUTSCHLAND

Manufacturing plant

DL41

This European Technical Assessment  
contains

6 pages including 1 annex which forms an integral part of  
this assessment

This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

EAD 350005-00-1104, Edition May 2015

This version replaces

ETA-16/0810 issued on 1 March 2017

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

## Specific Part

### 1 Technical description of the product

Object of this European Technical Assessment (ETA) is the intumescent construction product "Interdens Heatseal".

This ETA also applies to "Interdens Heatseal" in form of cuts (e.g. strips) and blanked pads as well as to the modifications with self-adhesive tape (SA)<sup>1</sup> on one side and/or with a lamination of aluminium foil (thickness 100 µm)<sup>1</sup> on one or both sides.

In case of fire, exposed to high temperatures, the intumescent product expands and generates foam. This foam seals joints and gaps, closes voids and openings. Thus, the foam restricts the passage and the spread of heat, smoke, flames or any combination of these.

The technical characteristics relevant for fire sealing and fire stopping effects of the construction product "Interdens Heatseal" are given in Annex 1.

The construction product "Interdens Heatseal" is a semi-rigid intumescent product of anthracite colour, produced in form of panels. The product consists essentially of intumescent substances, binder and a glass-fibre inlay.

The construction product "Interdens Heatseal" is a factory-made board of nominal thicknesses between 0,9 mm and 2,1 mm (tolerance of ±0,3 mm for each nominal thickness), and preferably of a standard width of 1030 mm and of a standard length of 2125 mm.

Other dimensions, cuts and pads are available on demand.

The construction product "Interdens Heatseal" may be equipped with a self-adhesive tape on one side for fixing the product on the substrate or can be fastened mechanically or by using a suitable adhesive, which is not part of this ETA.

The construction product "Interdens Heatseal" may also get a lamination of aluminium foil<sup>1</sup> (thickness 100 µm) on one or both sides.

The construction product "Interdens Heatseal" may be cut if necessary.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document (EAD)

The construction product "Interdens Heatseal" is assessed on the basis of EAD 350005-00-1104<sup>2</sup> as an intumescent product for fire sealing and fire stopping purposes without defined final intended use (IU 1).

The construction product "Interdens Heatseal" and its modifications with self-adhesive tape and/or a lamination of aluminium foil (thickness 100 µm) are intended to be used as an essential component in construction products, construction elements, kits and special assemblies which need to meet requirements concerning the safety in case of fire.

In case of fire, the product delays the heat transfer through fire resistant construction elements and assemblies by expanding under the impact of high temperatures and thus restricting the spread of fire in fire resistant construction elements and assemblies.

The performance given in section 3 is only valid, if the construction product "Interdens Heatseal" is used in accordance with the instructions and the conditions stated in section 3.3.

The test and assessment methods on which this ETA is based, lead to the assumption of working life of the intumescent construction product "Interdens Heatseal" of at least 10 years<sup>3</sup> in final use.

<sup>1</sup> Type, manufacturer and specific parameters deposited with DIBt

<sup>2</sup> Official Journal of the EU N° C 378/02 of 13/11/2015

<sup>3</sup> Results of long-term aging available (10 years defined exposure)

The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### 3 Performance of the product and references to the methods used for this assessment

#### 3.1 Safety in case of fire (BWR 2)

##### 3.1.1 Reaction to fire

Essential characteristic	Performance
Reaction to fire	Class E in accordance with EN 13501-1

The intumescent construction product "Interdens Heatseal" with/without a self-adhesive tape and/or a lamination of aluminium foil (thickness 100 µm) meets the reaction to fire requirements of class E in accordance with EN 13501-1<sup>4</sup>.

##### 3.1.2 Resistance to fire

The performance "resistance to fire" shall be determined separately for every final use and shall be classified, if required for the construction element concerned.

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content of dangerous substances	No dangerous substances <sup>5</sup>

The detailed chemical composition of the intumescent construction product "Interdens Heatseal" was assessed by DIBt and is deposited with DIBt.

#### 3.3 General aspects

Durability testing shall be an integral part of assessing the basic works and performance requirements. The following specific provisions shall be complied with to ensure the durability of the performance.

The testing and the assessment of the product performance were carried out for environmental conditions of type Z<sub>2</sub> in accordance with EAD 350005-00-1104<sup>2</sup>, clause 1.2.2.

Result:

The intumescent construction product "Interdens Heatseal" can be used under use conditions of type Z<sub>2</sub> - product intended for use at dry internal conditions without frost at a relative humidity between 50 % r.F. and 85 % r.F. and at temperatures between +5 °C ±5 °C and +35 °C ±5 °C - without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

### 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 350005-00-1104<sup>2</sup> "Intumescent products for fire sealing and fire stopping purposes", the applicable European legal act is: EC Decision 1999/454/EC of 22 June 1999, amended by EC Decision 2001/596/EC of 8 January 2001

<sup>4</sup> EN 13501-1 Fire classification of construction products and building elements; Part 1: Classification using test data from reaction to fire tests; and A1:2009

<sup>5</sup> In accordance with the Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 (published in the OJ of the EU N° L353 of 31/12/2008)

The system to be applied is: **system 1**

See Regulation (EU) N° 305/2011 Annex V in conjunction with Article 65 (2) and the following table:

Product	Intended use	Characteristic	System
"Interdens Heatseal" with/without a self- adhesive tape and/or lamination of aluminium foil	Components effective in view of safety in case of fire used in construction products, construction elements, kits and special assemblies	reaction to fire, properties relevant for the fire sealing and fire stopping effect	1

**5 Technical details necessary for the implementation of the procedure for assessment and verification of constancy of performance (AVCP) system 1, as provided for in the applicable European Assessment Document**

The technical details necessary for the implementation of the system for assessment and verification of constancy of performance are laid down in the control plan (confidential part of this ETA) deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 10 March 2021 by Deutsches Institut für Bautechnik

Otto Fechner  
Head of Section

*beglaubigt:*  
Dr.-Ing. Dierke

## ANNEX 1

### CHARACTERISTICS RELEVANT FOR THE FIRE SEALING AND FIRE STOPPING EFFECTS OF THE CONSTRUCTION PRODUCT

#### "Interdens Heatseal"

Thickness	Range and tolerance	Test method
Expansion ratio	0,9 mm to 2,1 mm (tolerance for each thickness $\pm 0,3$ mm)	see control plan
Expansion pressure	6,0 to 18,0	
Expansion pressure	0,50 N/mm <sup>2</sup> to 1,80 N/mm <sup>2</sup>	

The chemical reaction starts at ca. 150 °C.